

ABSTRACT OF THE DISCLOSURE

A rotor of a synchronous motor and a method of manufacturing the same. The rotor of the synchronous motor comprises a main core, formed from a plurality of laminated thin iron sheets, the thin iron sheets having a 5 hole at a center for receiving a rotating shaft, and a number of magnet holes and induced conductor holes radially disposed in the thin iron sheets at a predetermined space differently from the hole. A plurality of magnets are inserted into the magnet holes of the main core. Supplementary cores, having a hole and induced conductor holes corresponding to the hole and 10 the induced conductor holes of the main core, are disposed at the ends of the main core wherein the magnet is inserted. An induced conductor formed by ingotting through the induced conductor holes of the main core and the induced conductor holes of the supplementary cores. Consequently, through the induced conductor and the magnet, the efficiency of the motor 15 can be improved. Furthermore, productivity can be also increased because of shortened manufacturing procedure, since the magnet is naturally secured by ingotting the induced conductor through the main core and the supplementary cores.

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